the second of the second of

F. GENERIC BRANDS

<u>*1776* 85</u>	
Distributed by Park Avenue Tobacco Co manufactured by U.S. Tobacco Co sold only on military installations.	5/85
"1776" MENTHOL 85	
Distributed by Park Avenue Tobacco Co manufactured by U.S. Tobacco Co sold only on military installations.	5/85
ASTOR 85 (BOX)	
Distributed by Park Avenue Tobacco - manufactured by U.S. Tobacco Co.	1/86
ASTOR 100 (BOX)	
Distributed by Park Avenue Tobacco: - manufactured by U.S. Tobacco Co.	1/86
ASTOR 100 MENTHOL (BOX)	
Distributed by Park Avenue Tobacco - manufactured by U.S. Tobacco Co.	1/86
BASICS: 85:	
Distributed by Grand Union Co manufactured by Liggett Group.	7/84
BASICS MENTHOL 85	
Distributed by Grand Union Co manufactured by Liggett Group.	7/84:
BASICS 100	
Distributed by Grand Union Co manufactured by Liggett Group.	7/84
BEST VALUE FULL FLAVOR 85	
Manufactured by R. J. Reynolds: - sold in K-Mart stores.	1/89
BEST VALUE FULL FLAVOR 100	
Manufactured by R. J. Reynolds - sold in K-Mart Stores.	17/8,9
BEST VALUE FILTER LIGHTS 85	
Manufactured by R. J. Reynolds - sold in K-Mart Stores.	1/89

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3/84

Liggett Group.

BRONSON ULTRA LIGHT 100

BRONSON ULTRA LAGRY 100	
Distributed by National Product Group - manufactured by Liggett Group.	3/84
CLASS: "A" DELUXE LIGHTS: 85:	
Distributed by Gary Tobacco: Co manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS MENTHOL 85	
Distributed by Gary Tobacco: Co manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS 100	
Distributed by Gary Tobacco: Co manufactured by Liggett Group.	11/86
CLASS "A" DELUXE LIGHTS MENTHOL 100	
Distributed by Gary Tobacco: Co manufactured by Liggett Group.	11/86
CLASS "A" DELUXE ULTRA LIGHTS: 100	
Distributed by Gary Tobacco: Co manufactured by Liggett Group.	11/86
COINS 85	
Distributed by HVBG, Inc manufactured by Brown & Williamson - sold only in vending machines.	3/85
COINS LIGHTS 85	
Distributed by MVBG, Inc manufactured by Brown & Williamson - sold only in vending machines.	3/85
COST CUTTER LIGHTS 85	
Distributed by The Kroger Company - manufactured by Liggett Group.	4/61.
COST CUTTER LIGHTS 100	
Distributed by The Kroger Company - manufactured by Liggett Group.	6/82
COST CUTTER LIGHTS MENTHOL 85	
Distributed by The Kroger Company - manufactured by Liggett Group.	6/02
DELTA 85	

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5/86

Manufactured and distributed by Park Avenue Tobacco Co.

GENERIC BRANDS	A132
DELTA: 100 (BOX)	
Manufactured and distributed by Park Avenue Tobacco Co.	5/86
DELTA 100 MENTHOL (BOX)	
Manufactured and distributed by Park Avenue Tobacco Co.	5/86
ECON MENTHOL 85	
Distributed by Richfood, Inc manufactured by U.S. Tobacco Company.	10/81
EPIC DELIDOR LIGHTS 85	
Distributed by Southland Corp manufactured by Liggett Group.	11/63
EPIC DELINE LIGHTS MENTHOL 85	
Distributed by Southland Corp manufactured by Liggett Group.	11/83
FALCON LIGHTS 85	
Manufactured and sold by Brown: 6 Williamson.	7/86
FALCON LIGHTS MENTHOL 85	
Manufactured and sold by Brown: 6: Williamson.	7/86
FALCON: LIGHTS 100	
Manufactured and sold by Brown: & Williamson.	7/86
FALCON LIGHTS MENTHOL 100	
Manufactured and sold by Brown 6 Williamson.	7/86
FILTER ULTRA LIGHTS 85	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	3/83
FILTER ULTRA LIGHTS 100	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	3/83
PLAVOR: LIGHTS S	,
Distributed by Gary Tobacco Company - manufactured by Liggett Group.	7/81

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GENERIC BRANDS	A1/34
LIGHTS 85 (WHITE PACK)	
Distributed by Compass Foods - manufactured by Liggett Group.	4/81
LIGHTS 85 (YELLOW PACK)	
Distributed by Sun Fresh, Inc manufactured by Liggett Group.	6/81.
MAJOR FULL FLAVOR 80 BOX	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR ULTRA LIGHTS 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR ULTRA LIGHTS 100	•
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS 85	
Manufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS MENTHOL SS	
Manufactured and sold by Brown & Williamson.	7785:
MAJOR LIGHTS 100	
Hanufactured and sold by Brown & Williamson.	7/85
MAJOR LIGHTS MENTHOL 100	
Manufactured and sold by Brown & Williamson.	7/85
MAJON FULL FLAVOR 85	
Manufactured and sold by Brown & Williamson.	7//85
HAJOR: FULL FLAVOR: 100	
Manufactured and sold by Brown 6 Williamson.	7./.85
PRIGRERAKER: LIGHTS 85	
Distributed by Economy Wholesale - manufactured by Liggett Group.	7/82

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9/84

Liggett Group.

GENERIC BRANDS	A136
YOURS PILTER LIGHTS 85	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	5/83
YOURS FILTER LIGHTS MENTHOL 85	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	5/83
YOURS FILTER LIGHTS 100	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	5/83
YOURS FILTER LIGHTS MENTHOL 100	
Distributed by Gary Tobacco Co manufactured by Liggett Group.	5/83

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DESCRIPTION OF REPORTED DATA

All values reported are averages of four monthly samplings, except for reconstituted tobacco, expanded tobacco, and expanded stem levels, which are determined on a quarterly basis.

Brands are tested each month for FTC tar and nicotine deliveries and for total alkaloids and total reducing sugars. The mentholated brands are tested each month for menthol in smoke, filler, and filter. Therefore, the average for these characteristics covers an interval of four months. Other characteristics are determined once every three (3) months; therefore, the average represents a period of one year. When a characteristic is not measured, the value reported is from the preceding month.

Generally, the value reported is an average of four samplings. <u>Mhan a change has been detected and confirmed, the reported values may consist of one value or an average of two or three values, and are shown in parentheses.</u>

The minor brands are examined twice a year for FTC tar, nicotine and CO deliveries as well as physical characteristics.

Data appearing on the graphs represent the average of the four monthly samplings.

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I. SAMPLING

The freshest cigarettes are obtained from one jobber in ten major cities (Richmond, Virginia: Washington, D.C.: New York, New York; Louisville, Kentucky; Charlotte, North Carolina; Atlanta, Georgia: St. Louis, Missouri; New Orleans, Louisiana: Dallas, Texas; and Chicago, Illinois). The most current date of manufacture is used for these analyses. The total number of cartons used never exceeds ten.

gight packs from each carton are opened, and the cigarettes are equilibrated to standard conditions; i.e., 75°F and 60°R. H. for at least 48 hours. After the cigarettes have been equilibrated random samples are selected for analyses. Samples are selected so that carton to carton differences can be determined; thus, each carton within a given brand is considered an individual sample. Only average values obtained from the total sample are incorporated in the C.I. Report; however, the individual carton values are important for noting possible changes within a given brand.

Cigarettes for menthol analyses are taken immediately after the packs are opened and placed in sealed containers; thus, the menthol content of the filler, filter, and smoke are determined from unequilibrated cigarettes.

II. CIGARETTE PERFORMANCE

A. Smoke Characteristics

1. FTC Tar

FTC Tar is defined: as TPM minus water minus: nicotine: smoked to a: 23 mm butt or tipping plus: 3 mm. (whichever is the: longer).

2. TPM

Total particulate matter (TPM), smoke particles: larger than 0.3 micron, is: determined by smoking cigarettes on a twenty-port constant volume: smoking machine which provides a 35 milliliter (ml) puff of two: seconds duration once each minute. The TPM, including nicotine, is collected on Gelman disposable filter pads which are weighed before and after smoking five cigarettes (one port) to a 23 millimeter butt length or tipping paper plus 3 mm. (whichever is the longer). A total of 12 ports (60 cigarettes) are smoked per sample each month.

3. Nicotine and Water in TPM

Nicotine and water in TPM are determined simultaneously by gas chromatography of an isopropyl alcohol extract. Samples are compared to standards of known nicotine and water concentration. Carvone and ethanol are used as internal standards in the extracting solution for nicotine and water, respectively, to eliminate instrumental variation. For nicotine and water determination in TPM, twelve ports are smoked for each brand as

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described in Section II.A.2. Two TPM pads are combined in a test tube and extracted in the isopropyl alcohol extracting solution. The extracts are then analyzed on a gas chromatograph. Sample: injection, chromatogram analysis, and data manipulation are automated. Data are reported on a milligram per cigarette basis.

4. Menthol

Menthol is determined in smoke (TPM pads), filler and filter plugs by gas chromatography of an ethanol extract. The samples are compared to standards of known concentration. Carvone is used as an internal standard in the extracting solution to eliminate instrument variation. Sample injection, chromatogram analysis, and data manipulation are automated. For menthol in smoke determinations, eight ports (five cigarettes per port) are smoked for each brand. The cigarettes are smoked to a 23 mm butt length or tipping plus 3 mm (whichever is longer). Two TPM pads are combined and extracted in the 95% ethanol extracting solution. The sample for the filler and filter analyses represents a composite sample of twenty cigarettes randomly selected from the same packs used for menthol in smoke analysis. The composite sample is analyzed in duplicate. Data are reported as milligrams per cigarette.

5. Filter Efficiency

Eight: ports: of: TPM: are smoked by the direct filter weight method to determine filter efficiency. This: involves: cutting off the filters, weighing them, and reattaching them to monitor tobacco rods using a glass sleeve. This procedure permits the same amount of smoke to be presented to the filter. Reweighing the filters after smoking yields the weight of filtered material. Percent filtration efficiency can then be calculated. The filter efficiency values for carbon filter digarettes are slightly higher than for CA-type filter digarettes because of the added weight contributed by the carbon pick-up of gas phase components.

6. Filler Rod TPM

Filler rod TPH is the TPH generated when 55 mm of a tobacco rod is smoked; to a 10 mm tobacco butt. In this test, all cigarettes are cut to:a. 55 mm tobacco rod length regardless of the initial cigarette; length. In the case of filter cigarettes, the filter plug; is cut to:15:mm and the filter material is removed. If the cigarettes are ventilated, the ventilation holes are covered prior to cutting the filter. In the case of nonfilter cigarettes, a:15:mm plastic tube is taped to the cigarette rod to provide equal holding characteristics for smoking. A total of 8 ports (32 cigarettes) are smoked per sample.

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7. Puff Count

Puff count is determined by counting the number of puffs required to reach designated butt length during the TPM analysis.

8. Carbon Monoxide (CO) Deliveries in Cigarette Smoke

Five cigarettes per port are smoked on a 20-port smoking machine using standard smoking specifications. The vapor phase is pumped into a non-dispersive infrared spectrophotometer for Co detection. A total of four ports (20 cigarettes) are smoked per sample. Gas phase is defined as the smoke which passes through a standard Cambridge filter pad. Samples are compared to a single standard of known concentration introduced through the ports by means of a gas sampling bag. The results are obtained on a per cigarette basis and a per port basis.

9. Gas Phase Smoke Index

The smoke index (S.I.) represents the efficiency of a carbon filter for the removal of the cyanides and total aldehydes component from the gas phase. The S.I. is determined by a plug-in and plug-out smoking procedure. Smoke index is the combined average percent reduction of cyanides and total aldehydes. The higher the S.I. value (maximum 100), the greater the filter efficiency for cyanide and total aldehydes removal.

B. Resistance-To-Draw (RTD)

Resistance-to-draw [expressed as mm of water (differential pressure)] is defined as the pressure drop across a cigarette with an air velocity of 1050 cc/min. This is determined by inserting the end of a cigarette into a specially designed tube through which air can be drawn. The pressure difference between the open and enclosed end of the cigarette is measured. The apparatus is calibrated by means of standardized capillary tubes of known pressure drop. Cigarettes are randomly selected by carton and measured for a total of fifty determinations per brand.

C. Static Burn Rate

Static burn time is the number of minutes required for 40 mm of the tobacco rod to burn in a device which measures the time automatically. Eight cigarettes per brand are randomly selected for this test.

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III. CIGARETTE CONSTRUCTION

A. PADEE

1. Coresta

Permeability (porosity) of cigarette paper is defined as the ratio of the air flow (volume per unit of time) per unit of surface area of the test paper to the difference in pressure across the test paper. Cigarettes for this analysis are randomly selected by carton and measured for a total of thirty cigarettes per brand.

2. Paper Component

The substances added to paper to control the rate of burning are determined quantitatively on an extract of the paper. Phosphate is determined by the colorimetric molybdovanadate reaction. Citrate is determined by the gas chromatographic analysis of the methyl ester formed by reacting the paper extract with a solution of sulfuric acid in absolute methanol.

B. Circumference

Circumference is measured with a Techmet LaserMike® Circumference Micrometer. The cigarettes to be tested are placed in the hopper which automatically positions the cigarette in the path of a low power laser beam. The circumference measurement is a function of that portion of the laser beam which is blocked out. During one circumference measurement, 100 readings are taken per revolution. An internal microprocessor computes the circumference and the results are reported in mm. Cigarettes are randomly selected by carton and measured for a total of thirty determinations per brand.

C. Weight of Tobacco

Cigarettes are randomly selected by carton for a total of twenty cigarettes. The tobacco portion only is weighed. The weight of tobacco per cigarette is calculated and corrected to a 12.5% moisture basis.

D. Cigarette and Tobacco Rod Length

The length of a cigarette paper is measured on a specially designed instrument. Lengths are measured accurately to the nearest 0.1 mm. A total of ten cigarette papers are measured per brand. The rod length is the difference between the cigarette length and filter length.

E. Tipping Paper Langth

Cigarettes are randomly selected by carton and the tipping paper is measured with a millimeter scale divided into 0.5 millimeter increments.

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F. Filter Plug

1. RTD. Ventilation, Length, and Weight

The same cigarettes which are used for total RTD are used for these measurements. To measure ventilation, a sliding glass sleeve connected to a digital ventilation meter is moved into position over the ventilation holes in the filter. The percentage of air that is drawn in through the holes diluting the mainstream of air passing through the cigarette rod is read directly off the meter. The filters are then separated from the rods, and individual measurements of filter RTD are made. The filter RTD is an encapsulated measurement eliminating the effects of ventilation.

The length of each filter is measured to the nearest 0.1 mm using a linear output transducer connected to a digital meter. The filters from five digrettes per carton are measured to yield an average filter length. The filter material, without plug wrap, is then weighed to the nearest 0.001 $g_{\rm i}$

2. Fiber Denier

Cigarettes are randomly selected by carton representing each place of manufacture. The plugs are opened, and a sample of fiber is removed from each. The samples are combined, rolled into a bundle, embedded in paraffin, sectioned on a microtome, and mounted on a microscope slide. Using a microscope projection system of: 1000X magnification, a tracing is made of ten fibers selected at random from the section. The areas of ten fibers are measured, averaged, and the denier per filament is calculated. The cross section is referred to by shape, that is, regular shape (R), I-shape (I), and Y-shape (Y). This test is performed annually.

G. Carbon

Carbon is determined on filter plugs by dissolving the supporting filter materials in an appropriate solvent and drying the remaining carbon for one hour at 250°C. Five plugs are used per determination and the values reported are the average of four determinations: in mg carbon/plug.

IV. FILLER: COMPOSITION

A. Total Alkaloids and Total Reducing Sugara

Reducing sugars and nicotine alkaloids are extracted from digaratte filler, with an aqueous acetic acid solution and determined colorimetrically using an autoanalyzer. Alkaloids react with cyanogen chloride in the presence of an aromatic amine to produce a color proportional to the alkaloid concentration. Reducing sugars are determined by their reaction with p-hydroxybenzoic acid hydrazide (PANSAN) in a basic medium to form a color. Samples are compared

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with nicotine and 1:1 glucose-fructose standards. All data are reported on a dry weight basis.

B. Reconstituted Tobacco and Expanded Stems

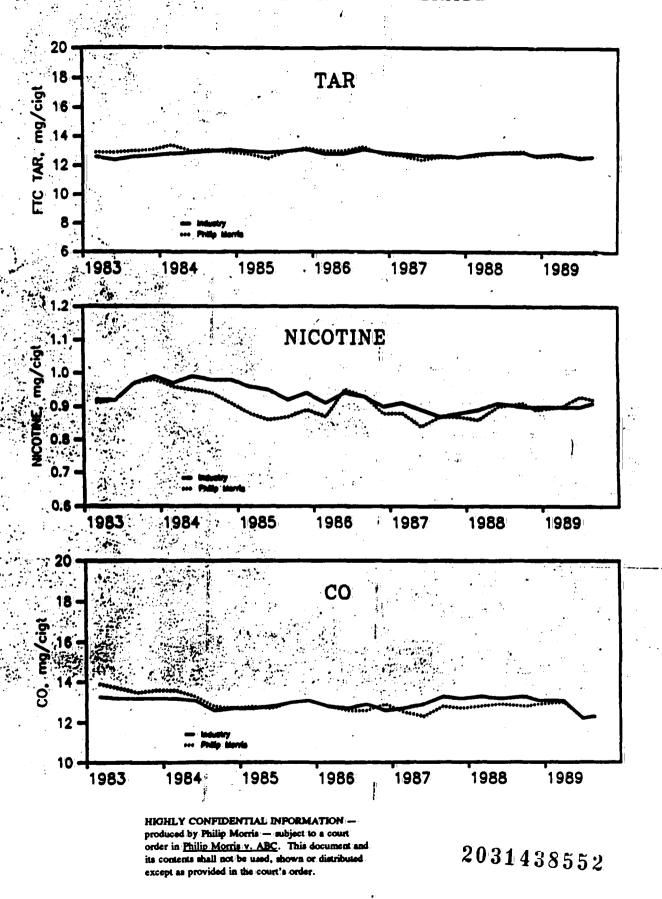
The amount of reconstituted tobacco and expanded stems (23) is determined by physically separating these components from the filler using a microscope for magnification and weighing the fractions. The brand sample consists of a group of nine digarettes randomly selected by carton. The center third of the rod of each digarette is removed and the sections are combined into three groups of three sections each. The filler of each group is removed, and the above separation is made.

C. Expanded Tobacco

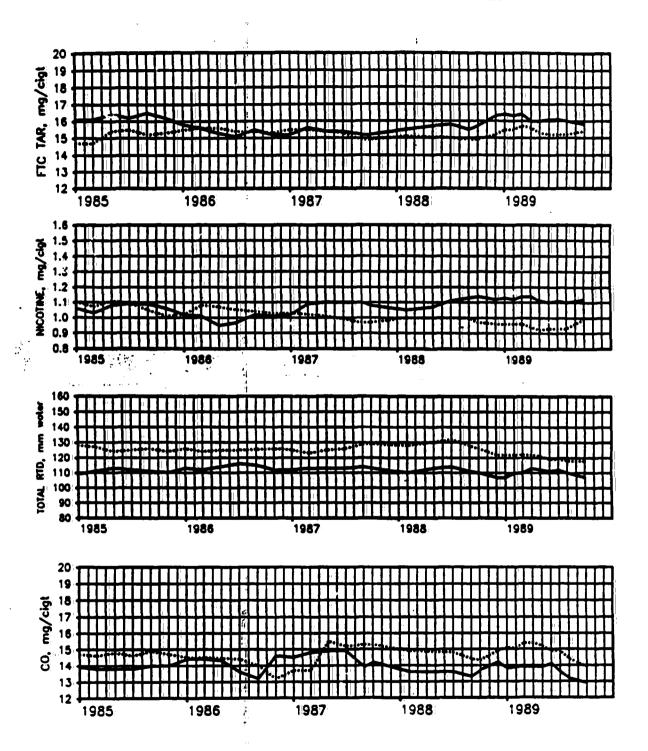
The filler from 18 randomly selected cigarettes is placed in acctome. The expanded tobacco and the non-expanded material is separated, air-dried, and weighed. The expanded tobacco percentage is calculated. This method was adopted as the standard procedure for expanded tobacco in June, 1980.

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SALES WEIGHTED AVERAGE



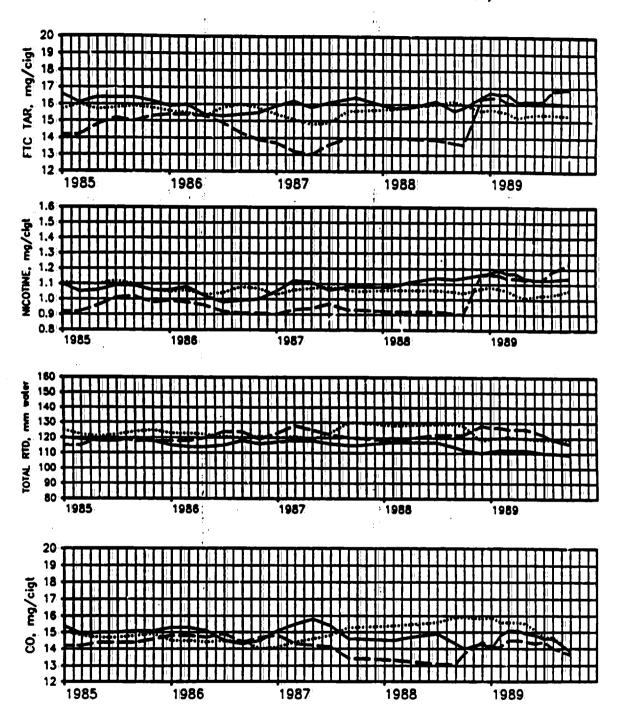
- Maribora: •••• Winston



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King Pilter: MARLBORO, WINSTON, VICEROY

--- Morlboro
--- Winston
-- Viceroy.



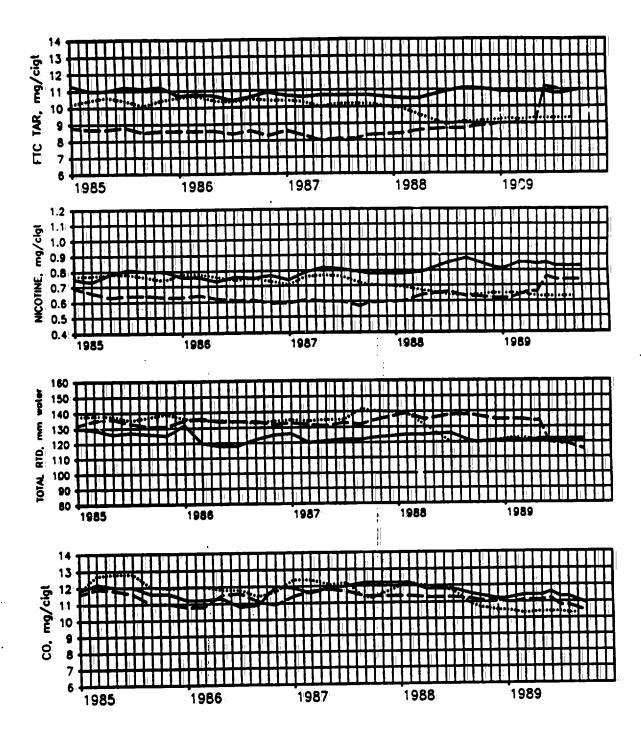
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King Filter Lights: MARLBORO LTS, WINSTON LTS, CAMEL LTS

- Mariboro: Lis

··· Winston Lts:

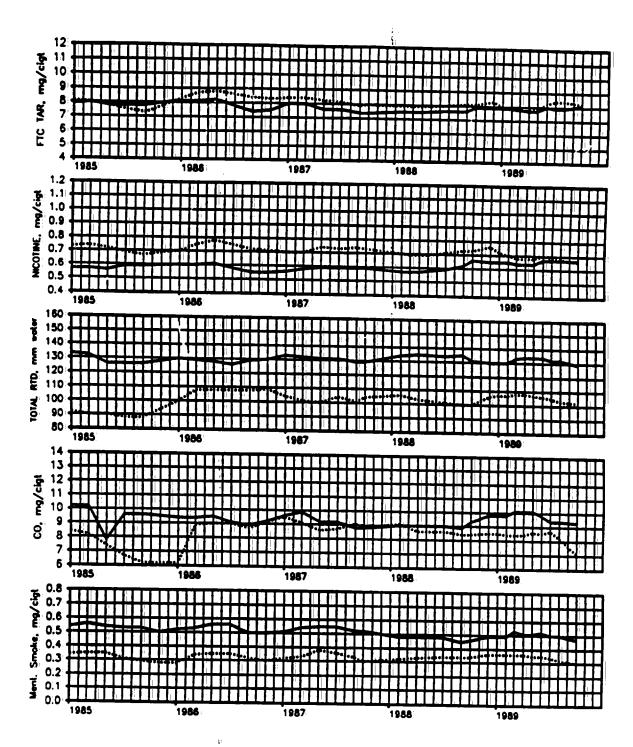
- Comel Lts



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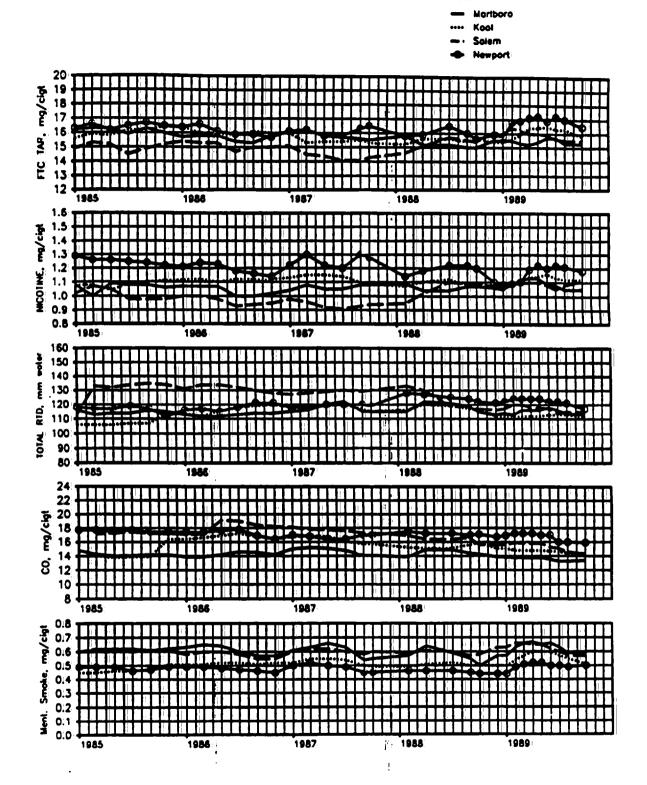
King Filter Menthol: MERIT, KENT GOLDEN LTS

···· Kent Gölden Lis



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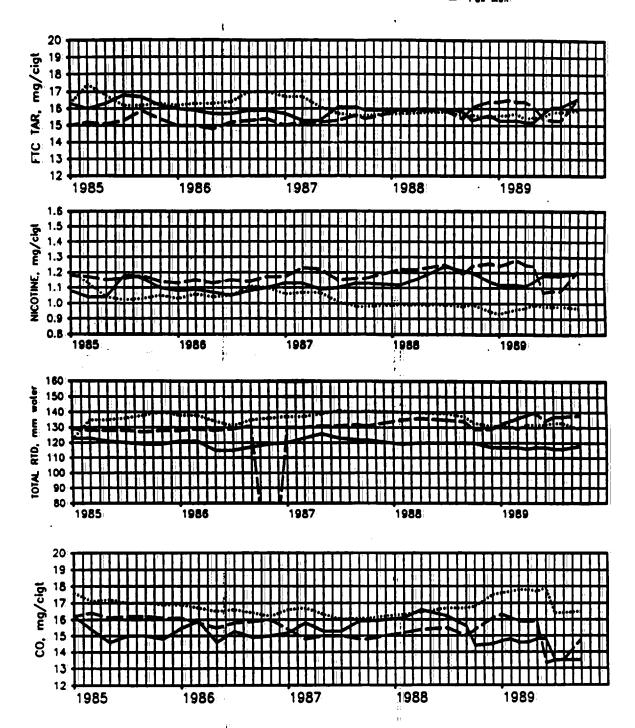
King Filter Menthol: MARLBORO, KOOL, SALEM, NEWPORT



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100's: MARLBORO, WINSTON, PALL MALL

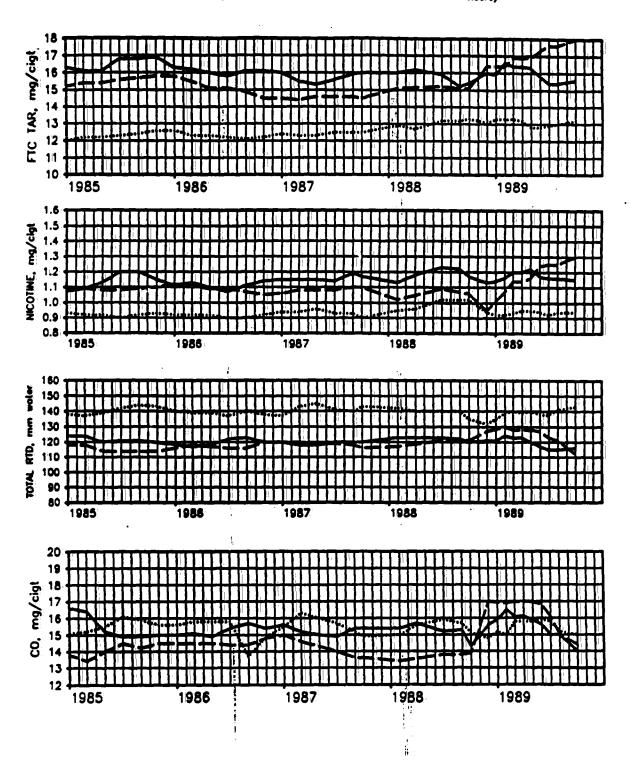




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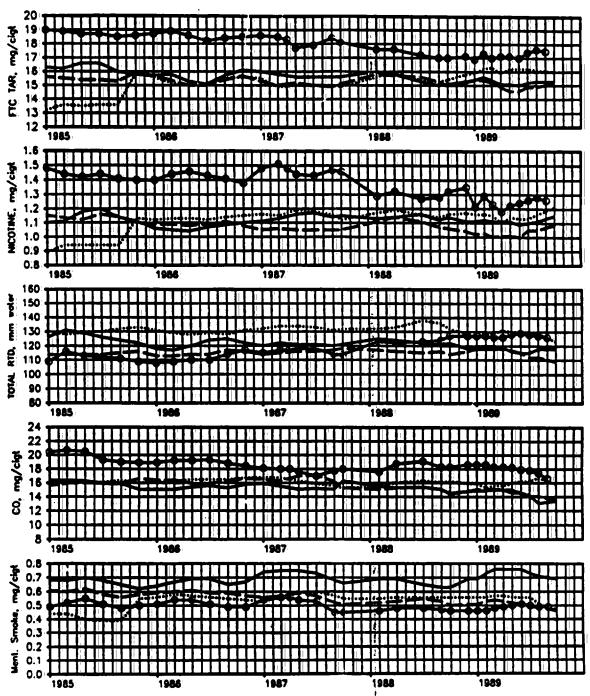
- B & H
--- Toreyton:
- Vicerov



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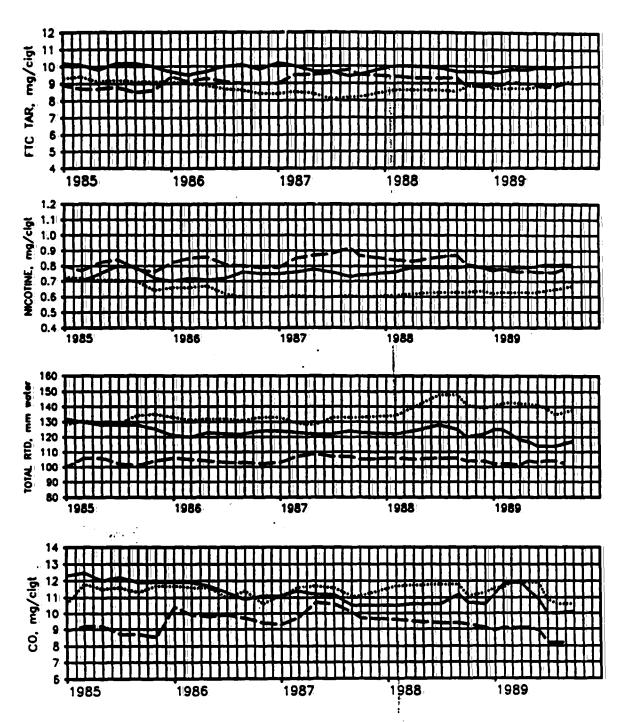




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100's: MERIT, VANTAGE, KENT GOLDEN LTS

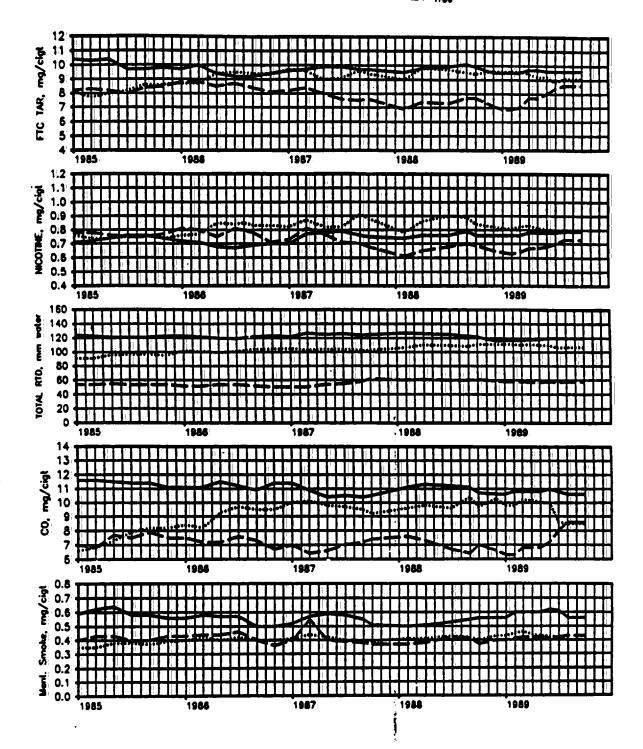




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100's Menthol: MERIT, KENT GOLDEN LTS, TRUE

--- Merit
---- Kent: Golden: Lts
--- True



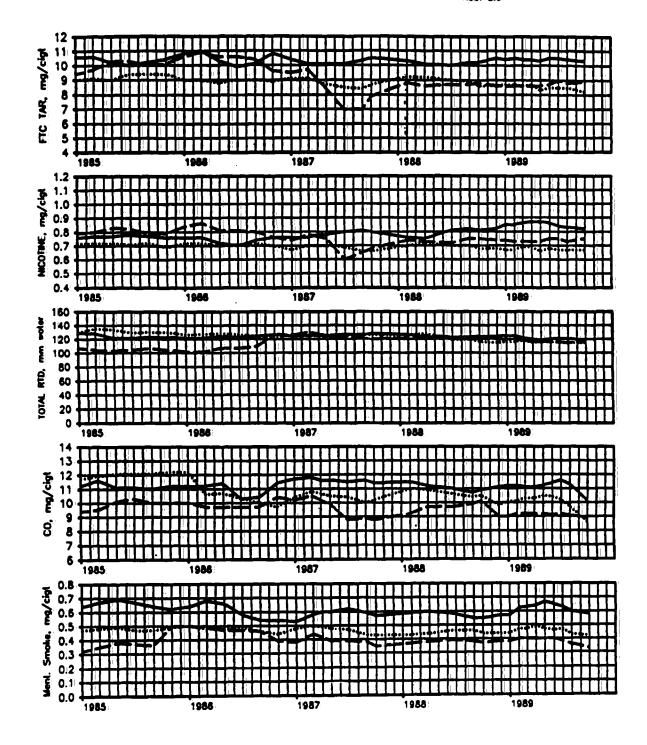
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100's Menthol: BENSON & HEDGES LTS, SALEM LTS, KOOL LTS

- B& H Lts

Solem Lts

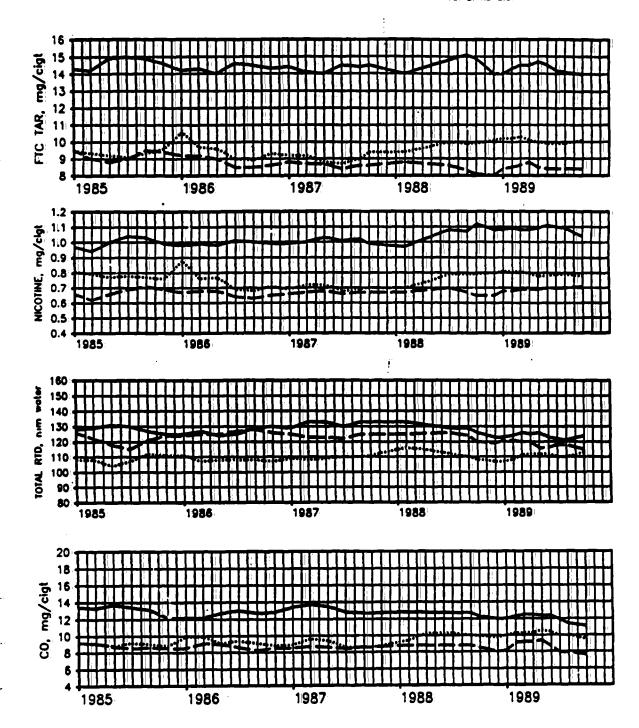
- - Kool Lis



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100's Slims: VIRGINIA SLIMS, MORE LTS, VIRGINIA SLIMS LTS

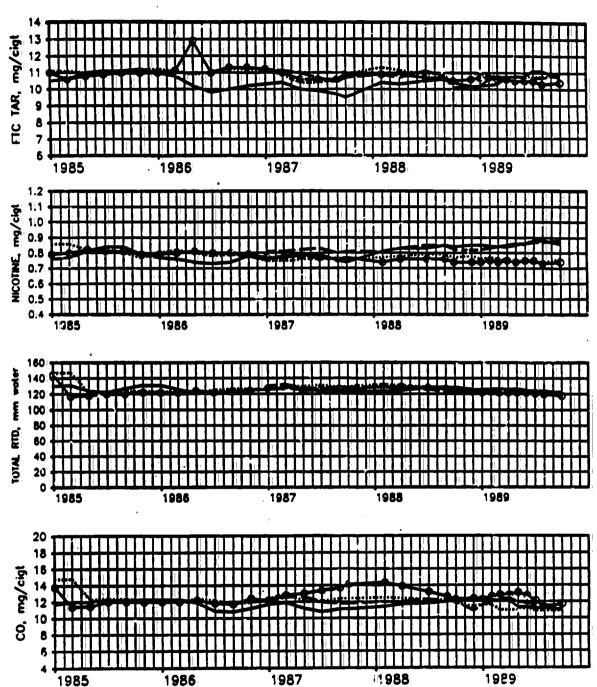
- Va. Slims
- More Lts:
- Va. Slims Lts



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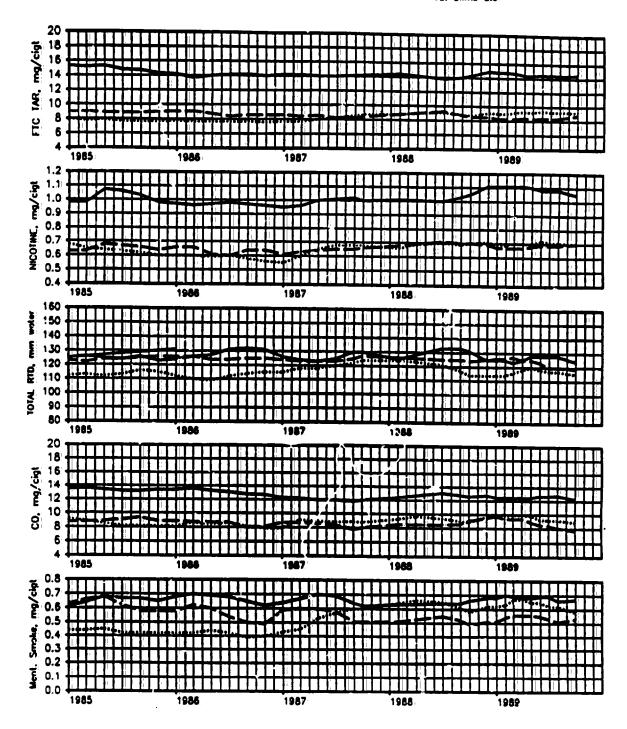




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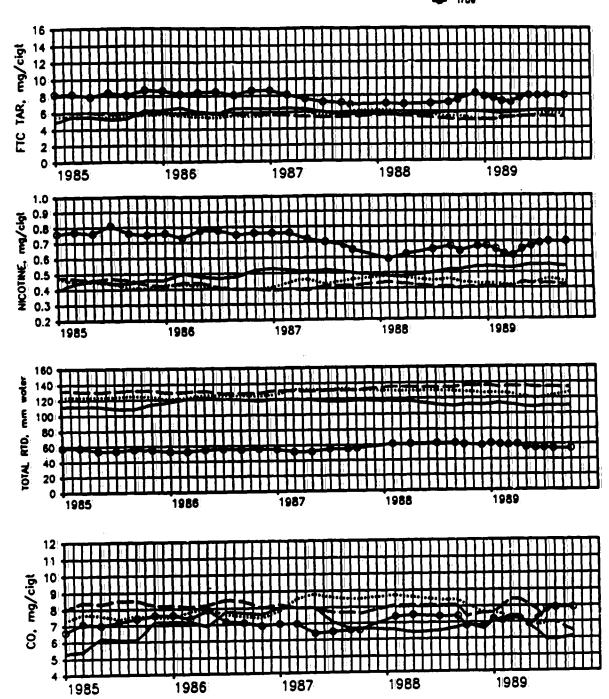
Va. Slims:
Solem Slim Lts
Va. Slims Lts:



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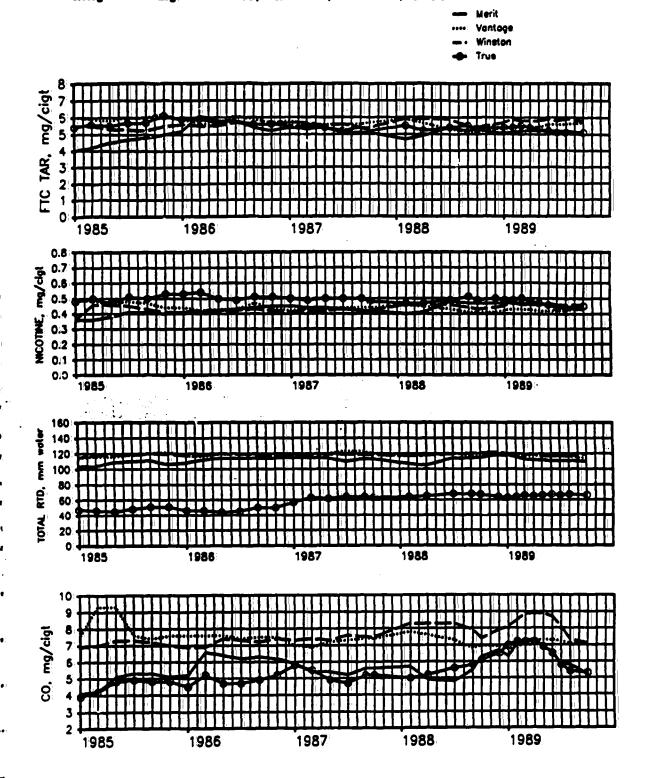


--- Meriti
---- Ventage
--- Winston
--- True



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